BHRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of Ward office in Mallasandra Sy.No-33 in Ward No-13, Project Sub Division Dasarahalli Zone

RA Bill-01 & Part measuremnts.

Name of Agency:- Benaka Developers & Projects Pvt.Ltd

Work Order :- BBMP/EE/PD/WO/000046/2017-18

Name of the Division:- Dasarahalli Division

Measurement Recorded On:-

Sl. No	BOQ. No	Description	Unit	No's	Length	Breadth	H/D	Qty	Remarks
1	1	Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of thorney jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications. as per Engineer in charge.							
		Ward office	Cum	1.00	1.00	30.00	6.00		180.00
								Total Qty	180.00
		BOQ Qty 180.0 Cum						Qty To Be Paid	180.00
		Qty reserved for want of approval of workslip						Balance Qty	0.00

08/04/19
Assistant Engineer
Mallasandra

08/04/19
Assistant Executive Engineer
Project Divison, BBMP

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BHRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of Ward office in Mallasandra Sy.No-33 in Ward No-13, Project Sub Division Dasarahalli Zone

RA Bill-01 & Part measuremnts.

Name of Agency:- Benaka Developers & Projects Pvt.Ltd

Work Order :- BBMP/EE/PD/WO/000046/2017-18

Name of the Division:- Dasarahalli Division

Measurement Recorded On:-

Sl. No	BOQ. No	Description	Unit	No's		Length	Breadth	H/D	Qty	Remarks
2	2	Excavation for road way in all types of soil by mechanical means including cutting and pushing the earth to site of embankment including trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections complete as per specifications. As per Engineer								
		For Roads	Cum	1.00	1.00	30.00	6.00	0.20	36.00	
								Total Qty	36.00	
		BOQ Qty 36.00 Cum						Qty To Be Paid	36.00	
		Qty reserved for want of approval of workslip						Balance Qty	0.00	

NEWZEN CONSULTANTS

09/04/2019
Assistant Engineer

09/04/2019
Assistant Executive Engineer
Project Divison, BBMP

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BHRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of Ward office in Mallasandra Sy.No-33 in Ward No-13, Project Sub Division Dasarahalli Zone

RA Bill-01 & Part measuremnts.

Name of Agency:- Benaka Developers & Projects Pvt.Ltd

Work Order :- BBMP/EE/PD/WO/000046/2017-18

Name of the Division:- Dasarahalli Division

Measurement Recorded On:-

Sl. No	BOQ. No	Description	Unit	No's	Length	Breadth	H/D	Qty	Remarks
8	8	Providing pressure grouting for construction joints with cement grout point mixed with plasticised expanding grout admixture at 225 grams/bag of cement conforming to BS:8110 p a r ti-1985, Section 8,9,4.6. As per Engineer in charge.							
		Ward office (Mass Excavation)	Point	1.00	1.00	19.60	5.50	107.80	
					One sqm=15 points			15.00	
							Total Qty	1617.00	
		BOQ Qty 1000.00 Point					Total Qty	1000.00	
		Qty reserved for want of approval of workslip					Balance Qty	617.00	

NEWZEN CONSULTANTS

16/04/2019

Assistant Engineer

Assistant Executive Engineer)
Project, Divison, BBMP

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

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BHRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of Ward office in Mallasandra Sy.No-33 in Ward No-13, Project Sub Division Dasarahalli Zone

RA Bill-01 & Part measuremnts.

Name of Agency:- Benaka Developers & Projects Pvt.Ltd

Work Order :- BBMP/EE/PD/WO/000046/2017-18

Name of the Division:- Dasarahalli Division

Measurement Recorded On:-

Sl. No	BOQ. No	Description	Unit	No's	Length	Breadth	H/D	Qty	Remarks
14	14	**Filling available excavated earth (excluding rock) in sides cum of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification. As per engineer in charge.**							
		Total Earth Excavated						**377.30**	
		Deduction							
		Raft Concrete	Cum	1.00	1.00	19.50	5.50	0.50	53.63	
		Pedestial Concrete							
		F1	Cum	1.00	2.00	0.75	0.60	0.90	0.81	
		F2	Cum	1.00	10.00	0.75	0.60	0.90	4.05	
		Column upto Plinth Top							
		C1	Cum	1.00	2.00	0.45	0.20	2.00	0.36	
		C2	Cum	1.00	10.00	0.45	0.20	2.00	1.80	
		PCC							
		Raft	Cum	1.00	1.00	19.50	5.50	0.10	10.73	
		Below SSM							
		Length Wall	Cum	1.00	2.00	19.50	0.75	0.10	2.93	
		Inside walls	Cum	1.00	6.00	3.00	0.75	0.10	1.35	
		Above SSM							
		Length Wall	Cum	1.00	2.00	19.50	0.60	0.10	2.34	
		Inside walls	Cum	1.00	6.00	3.00	0.45	0.10	0.81	
		SSM							
		1st Step							
		Length Wall	Cum	1.00	2.00	19.50	0.90	0.75	26.33	
		Inside walls	Cum	1.00	6.00	4.12	0.90	0.75	16.67	
		2nd Step							
		Length Wall	Cum	1.00	2.00	17.50	0.60	0.45	9.45	
		Inside walls	Cum	1.00	6.00	4.12	0.60	0.45	6.67	
							Total Qty (B)		137.91	
							Total Qty (A-B)		**239.39**	
		BOQ Qty 150.0 Cum					**Qty To Be Paid**		**150.00**	
		Qty reserved for want of approval of workslip					**Balance Qty**		**89.39**	

25/04/2019

Assistant Engineer
Mallasandra W-13

25/04/2019

Assistant Executive Engineer
Project Divison, BBMP

NEWZEN CONSULTANTS BANGALORE

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

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BHRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of Ward office in Mallasandra Sy.No-33 in Ward No-13, Project Sub Division Dasarahalli Zone

RA Bill-01 & Part measuremnts.

Name of Agency:- Benaka Developers & Projects Pvt.Ltd

Work Order :- BBMP/EE/PD/WO/000046/2017-18

Name of the Division:- Dasarahalli Division

Measurement Recorded On:-

Sl. No	BOQ. No	Description	Unit	No's	Length	Breadth	H/D	Qty	Remarks
16	16	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm cum and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, Unties, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fiHets Etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications, As per engineer in charge							
		Column upto GF Roof							
		C1	Cum	1.00	2.00	0.45	0.20	3.20	0.58
		C2	Cum	1.00	10.00	0.45	0.20	3.20	2.88
		Roof Beams							
		Grid A-E Along 1	Cum	1.00	1.00	19.50	0.20	0.45	1.76
		Grid A-E Along 2	Cum	1.00	1.00	17.50	0.20	0.45	1.58
		Grid 1-2 Along A,B,C,D,E	Cum	1.00	6.00	3.00	0.20	0.45	1.62
		Roof Slab Concrete							
		Slab	Cum	1.00	1.00	20.70	7.90	0.18	28.62
		Staircase Concrete							
		1st Flight							
		Waist Slab	Cum	1.00	1.00	3.55	1.80	0.15	0.96
		Steps	Cum	0.50	18.00	1.80	0.30	0.15	0.73
		Midlanding	Cum	1.00	1.00	3.60	1.50	0.15	0.81
		1st Flight							
		Waist Slab	Cum	1.00	1.00	3.55	1.80	0.15	0.96
		Steps	Cum	0.50	18.00	1.80	0.30	0.15	0.73
		Mid Landing Beam	Cum	1.00	1.00	3.60	0.20	0.45	0.32
								Total Qty	**41.54**
		BOQ Qty 37.08 Cum						**Qty To Be Paid**	**37.08**
		Qty reserved for want of approval of workslip						**Balance Qty**	**4.46**

NEWZEN CONSULTANT BANGALORE

10/05/2019

Assistant Engineer
Mallasandra W-13

6/05/2019

Assistant Executive Engineer
Project Divison, BBMP

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BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of Ward office in Mallasandra Sy.No-33 in Ward No-13, Project Sub Division Dasarahalli Zone

RA Bill-01 & Part measurements.

Name of Agency:- Benaka Developers & Projects Pvt.Ltd

Work Order :- BBMP/EE/PD/WO/000046/2017-18

Name of the Division:- Dasarahalli Division

Measurement Recorded On:-

Sl. No	BOQ. No	Description	Unit	No's	Length	Breadth	H/D	Qty	Remarks
18	18	Providing RCC loft (atta) 7.5cms thick with cement concrete design sqm mix M20 using clean granite or trap jelly of 20mm and down size with necessary reinforcements at 20cms centre to centre as per design including form work, centring, curing, etc., complete (exclusive of cost of steel and fabrication charges). As per engineer in charge.							
		Loft							
		Room-1	Sqm	1.00	1.00	7.50	0.60	4.50	
		Room-2	Sqm	1.00	1.00	15.00	0.60	9.00	
							Total Qty	13.50	
		BOQ Qty 13.43 Sqm					Qty To Be Paid	13.43	
		Qty reserved for want of approval of workslip					Balance Qty	0.07	

14/05/2019
Assistant Engineer
Mallasandra W-13

14/05/2019
Assistant Executive Engineer
Project Divison, BBMP

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		BHRUHAT BANGALORE MAHANAGARA PALIKE							
		Name of Work: Construction of Ward office in Mallasandra Sy.No-33 in Ward No-13, Project Sub Division Dasarahalli Zone							
		RA Bill-01 & Part measuremnts.							
		Name of Agency:- Benaka Developers & Projects Pvt.Ltd							
		Work Order :- BBMP/EE/PD/WO/000046/2017-18							
		Name of the Division:- Dasarahalli Division							
		Measurement Recorded On:-							
Sl. No	BOQ. No	Description	Unit	No's		Length	Breadth	H/D	Qty	Remarks
20	20	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. As per engineer in charge.								
		Footing PCC Shuttering								
		Raft Sides	Sqm	1.00	1.00	50.00		0.10	5.00	
		Raft Sides	Sqm	1.00	1.00	50.00		0.45	22.50	
		SSM								
		1st Step								
		Length Wall	Sqm	2.00	2.00	19.50		0.10	7.80	
		Inside walls	Sqm	2.00	6.00	3.00		0.10	3.60	
		2nd Step								
		Length Wall	Sqm	2.00	2.00	19.50		0.10	7.80	
		Inside walls	Sqm	2.00	6.00	3.00		0.10	3.60	
								Total Qty	50.30	
		BOQ Qty 27.28 Sqm						Qty To Be Paid	27.28	
		Qty reserved for want of approval of workslip						Balance Qty	23.02	

NEWZEN CONSULTANT BANGALORE

23/04/2019

Assistant Engineer
Mallasandra W-13

23/04/2019

Assistant Executive Engineer
Project Divison, BBMP

BENAKA DEVELOPERS AND PROJECTS PVT. LTD.

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BHRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of Ward office in Mallasandra Sy.No-33 in Ward No-13, Project Sub Division Dasarahalli Zone

RA Bill-01 & Part measuremnts.

Name of Agency:- Benaka Developers & Projects Pvt.Ltd

Work Order :- BBMP/EE/PD/WO/000046/2017-18

Name of the Division:- Dasarahalli Division

Measurement Recorded On:-

Sl. No	BOQ. No	Description	Unit	No's	Length	Breadth	H/D	Qty	Remarks
22	22	Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. As per Engineer in charge.	Sqm						
		Pedestal Shuttering							
		F1	Sqm	1.00	2.00	1.8	0.90	3.24	
		F2	Sqm	1.00	10.00	1.8	0.90	16.20	
		Column upto Plinth Top Shuttering							
		C1	Sqm	1.00	2.00	1.3	2.45	6.37	
		C2	Sqm	1.00	10.00	1.3	2.45	31.85	
		Column upto GF Roof							
		C1	Sqm	1.00	2.00	1.30	3.20	8.32	
		C2	Sqm	1.00	10.00	1.30	3.20	41.60	
		Dummy Columns							
		C1	Sqm	1.00	2.00	1.30	1.00	2.60	
		C2	Sqm	1.00	10.00	1.30	1.00	13.00	
							Total Qty	123.18	
		BOQ Qty 107.98 Sqm					Qty To Be Paid	107.98	
		Qty reserved for want of approval of workslip					Balance Qty	15.20	

NEWZEN CONSULTANT BANGALORE

23/04/2019

Assistant Engineer
Mallasandra W-13

21/04/2019

Assistant Executive Engineer
Project Divison, BBMP

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BHRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of Ward office in Mallasandra Sy.No-33 in Ward No-13, Project Sub Division Dasarahalli Zone

RA Bill-01 & Part measuremnts.

Name of Agency:- Benaka Developers & Projects Pvt.Ltd

Work Order :- BBMP/EE/PD/WO/000046/2017-18

Name of the Division:- Dasarahalli Division

Measurement Recorded On:-

Sl. No	BOQ. No	Description	Unit	No's	Length	Breadth	H/D	Qty	Remarks
25	25	Providing and removing centering, shuttering, strutting, Sqm propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. As per Engineer in charge.							
		Plinth Beam							
		Grid A-E Along 1	Sqm	2.00	1.00	19.50		0.45	17.55	
		Grid A-E Along 2	Sqm	2.00	1.00	17.50		0.45	15.75	
		Grid 1-2 Along A,B,C,D,E	Sqm	2.00	6.00	7.90		0.45	42.66	
		Roof Beams							
		Grid A-E Along 1	Sqm	1.00	1.00	19.50		1.25	24.38	
		Grid A-E Along 2	Sqm	1.00	1.00	17.50		1.25	21.88	
		Grid 1-2 Along A,B,C,D,E	Sqm	1.00	6.00	7.90		1.10	52.14	
		Mid Landing Beam	Sqm	1.00	1.00	3.60		0.95	3.42	
		Lintel Beam							
		Door	Sqm	1.00	2.00	1.66		0.60	1.99	
		Window	Sqm	1.00	6.00	2.26		0.60	8.14	
		Ventilator	Sqm	1.00	1.00	1.56		0.60	0.94	
								Total Qty	**171.28**	
		BOQ Qty 144.73 Sqm						**Qty To Be Paid**	**144.73**	
		Qty reserved for want of approval of workslip						**Balance Qty**	**26.55**	

26.55

NEWZEN CONSULTANT

10/05/2019

Assistant Engineer
Mallasandra W-13

(10/5/2019)

Assistant Executive Engineer
Project Divison, BBMP

Scanned with CamScanner

BHRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of Ward office in Mallasandra Sy.No-33 in Ward No-13, Project Sub Division Dasarahalli Zone

RA Bill-01 & Part measuremnts.

Name of Agency:- Benaka Developers & Projects Pvt.Ltd

Work Order :- BBMP/EE/PD/WO/000046/2017-18

Name of the Division:- Dasarahalli Division

Measurement Recorded On:-

Sl. No	BOQ. No	Description	Unit	No's		Length	Breadth	H/D	Qty	Remarks
26	26	Providing and removing centering, shuttering, strutting, Sqm propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specifications. As per Engineer in charge.								
		Lintel Beam								
		Door	Sqm	1.00	2.00	1.66		0.60	1.99	
		Sides	Sqm	1.00	2.00	2.86		0.10	0.57	
		Window	Sqm	1.00	6.00	2.26		0.60	8.14	
		Sides	Sqm	1.00	6.00	2.86		0.10	1.72	
		Ventilator	Sqm	1.00	1.00	1.56		0.60	0.94	
		Sides	Sqm	1.00	1.00	2.76		0.10	0.28	
								Total Qty	13.63	
		BOQ Qty 10.82 Sqm						Qty To Be Paid	10.82	
		Qty reserved for want of approval of workslip						Balance Qty	2.81	

NEWZEN CONSULTANT BANGALORE

14/05/2019

Assistant Engineer
Mallasandra W-13

14/5/2019

Assistant Executive Engineer
Project Divison, BBMP

BENAKA DEVELOPERS AND PROJECTS PVT LTD BANGALORE

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BRUHAT BANGALORE MAHANAGARA PAILKE

Name of Work: Construction of Ward office in Mallasandra Sy.No-33 in Ward No-13, Project Sub Division Dasarahalli Zone

Sl.No	Description	Member	Reinforcement Details: Dia of Bar	Length of Bar	Nos			8mm	10mm	12mm	16mm	20mm	25mm	Reamrks
28	**Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.**													
	Footing Matt													
	Raft Footing													
	Bottom matt	Main Bar	16	17.5	60	1	1	-	-	-	1,050.00	-	-	
		Distribution	12	6	160	1	1	-	-	960.00	-	-	-	
	Top matt	Main Bar	16	17.5	60	1	1	-	-	-	1,050.00	-	-	
		Distribution	12	6	160	1	1	-	-	960.00	-	-	-	
								-	-	-	-	-	-	
	Pedestal Reinforcement							-	-	-	-	-	-	
	F1	Main Bar	12	1.65	10	10	1	-	-	165.00	-	-	-	
								-	-	-	-	-	-	
	Column upto Plinth Top							-	-	-	-	-	-	
	C1	Main Bar	20	4.5	2	4	1	-	-	-	-	36.00	-	
		Main Bar	16	4.5	2	4	1	-	-	-	36.00	-	-	
		Stirupps	8	1.3	2	30	1	78.00	-	-	-	-	-	
		Stirupps	8	1	2	30	1	60.00	-	-	-	-	-	
	C2	Main Bar	25	4.5	10	4	1	-	-	-	-	-	180.00	
		Main Bar	20	4.5	10	4	1	-	-	-	-	180.00	-	
		Stirupps	8	1.3	10	30	1	390.00	-	-	-	-	-	
		Stirupps	8	1	10	30	1	300.00	-	-	-	-	-	
								-	-	-	-	-	-	
	Plinth Beam							-	-	-	-	-	-	
	PB1,PB2	Top Main Bar	20	17.5	2	4	1	-	-	-	-	140.00	-	
		Stirupps	8	1.6	2	123	1	393.60	-	-	-	-	-	
	PB3,4,5,6,7	Top Main Bar	20	6	6	4	1	-	-	-	-	144.00	-	
		Stirupps	8	1.6	2	123	1	393.60	-	-	-	-	-	

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BRUHAT BANGALORE MAHANAGARA PAILKE

Name of Work: Construction of Ward office in Mallasandra Sy.No-33 in Ward No-13, Project Sub Division Dasarahalli Zone

Reinforcement Details

SLNo	Description	Member	Dia of Bar	Length of Bar	Nos			8mm	10mm	12mm	16mm	20mm	25mm	Reamrks
	Plinth Top to Beam Bottom							-	-	-	-	-	-	
	C1	Main Bar	20	3.3	2	4	1	-	-	-	-	26.40	-	
		Main Bar	16	3.3	2	4	1	-	-	-	26.40	-	-	
		Stirupps	8	1.3	2	30	1	78.00	-	-	-	-	-	
		Stirupps	8	1	2	30	1	60.00	-	-	-	-	-	
	C2	Main Bar	25	3.3	10	4	1	-	-	-	-	-	132.00	
		Main Bar	20	3.3	10	4	1	-	-	-	-	132.00	-	
		Stirupps	8	1.3	10	30	1	390.00	-	-	-	-	-	
		Stirupps	8	1	10	30	1	300.00	-	-	-	-	-	
	Slab Beam							-	-	-	-	-	-	
	RB1, RB2	Top Main Bar	20	17.2	2	2	1	-	-	-	-	68.80	-	
		Top Extra	16	1.3	6	2	1	-	-	-	15.60	-	-	
		Bottom Main Bar	16	17.2	2	2	1	-	-	-	68.80	-	-	
		Stirupps	8	1.3	2	117	1	304.20	-	-	-	-	-	
	RB1A,RB2A(CB)	Top Main Bar	20	17.6	2	2	1	-	-	-	-	70.40	-	
		Top Extra	16	1.3	2	2	1	-	-	-	5.20	-	-	
		Bottom Main Bar	16	17.2	2	2	1	-	-	-	68.80	-	-	
		Stirupps	8	1.3	2	117	1	304.20	-	-	-	-	-	
	RB3,4,5,6,7,8	Top Main Bar	20	6.1	6	2	1	-	-	-	-	73.20	-	
		Top Extra	16	4	1	4	1	-	-	-	20.80	-	-	
		Bottom Main Bar	16	6.1	5	3	1	-	-	-	91.50	-	-	
		Stirupps	8	1.3	5	34	1	221.00	-	-	-	-	-	
	Slab Reinforcements													
	S1	Top Main	12	6	35	1	1	-	-	210.00	-	-	-	
		Distribution	10	4.1	50	1	1	-	205.00	-	-	-	-	
		Extar Bars	12	0.75	13	1	1	-	-	9.75	-	-	-	
		Extar Bars	10	1.25	20	1	1	-	25.00	-	-	-	-	
	S2	Top Main	12	6	35	1	1	-	-	210.00	-	-	-	
		Distribution	10	4.1	50	1	1	-	205.00	-	-	-	-	
		Extar Bars	12	0.75	13	1	1	-	-	9.75	-	-	-	

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BRUHAT BANGALORE MAHANAGARA PAILKE

Name of Work: Construction of Ward office in Mallasandra Sy.No-33 in Ward No-13, Project Sub Division Dasarahalli Zone

Reinforcement Details

Sl.No	Description	Member	Dia of Bar	Length of Bar	Nos			8mm	10mm	12mm	16mm	20mm	25mm	Reamrks
		Extar Bars	10	1.25	20	1	1	-	25.00	-	-	-	-	
	S3	Top Main	12	6	35	1	1	-	-	210.00	-	-	-	
		Distribution	10	4.1	50	1	1	-	205.00	-	-	-	-	
		Extar Bars	12	0.75	13	1	1	-	-	9.75	-	-	-	
		Extar Bars	10	1.25	20	1	1	-	25.00	-	-	-	-	
	S4	Top Main	12	6	35	1	1	-	-	210.00	-	-	-	
		Distribution	10	4.1	50	1	1	-	205.00	-	-	-	-	
		Extar Bars	12	0.75	13	1	1	-	-	9.75	-	-	-	
		Extar Bars	10	1.25	20	1	1	-	25.00	-	-	-	-	
	S5	Top Main	12	6	40	1	1	-	-	240.00	-	-	-	
		Distribution	10	6	60	1	1	-	360.00	-	-	-	-	
		Extar Bars	12	0.75	20	1	1	-	-	15.00	-	-	-	
		Extar Bars	10	1.25	20	1	1	-	25.00	-	-	-	-	
	Stairacse													
	Beam	Top mAin	16	1.5	3	1	1	-	-	-	4.50	-	-	
		Bottom	16	1.5	3	1	1	-	-	-	4.50	-	-	
		Stirupps	8	1.75	10	1	1	17.50	-	-	-	-	-	
	1St Flight	Top mAin	12	0.85	8	1	1	-	-	6.80	-	-	-	
		Distribution	10	1.2	6	1	1	-	7.20	-	-	-	-	
		Flight Rod	12	2.85	8	1	1	-	-	22.80	-	-	-	
		Distribution	10	1.2	19	1	1	-	22.80	-	-	-	-	
	Mid landing Beam	Top mAin	16	2.6	2	1	1	-	-	-	5.20	-	-	
		Bottom	16	2.6	2	1	1	-	-	-	5.20	-	-	
		Stirupps	8	1.36	17	1	1	23.57	-	-	-	-	-	
	Mid landing Slab	Main	12	1.2	17	1	1	-	-	20.80	-	-	-	
		Distribution	12	2.6	8	1	1	-	-	20.80	-	-	-	
		Top mAin	12	1.2	17	1	1	-	-	20.80	-	-	-	
		Top Distribution	12	2.6	8	1	1	-	-	20.80	-	-	-	

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Reinforcement Details

Sl.No	Description	Member	Dia of Bar	Length of Bar	Nos			8mm	10mm	12mm	16mm	20mm	25mm	Reamrks
	2nd Flight	Top main	12	0.9	8	1	1	-	-	7.20	-	-	-	
		Distribution	10	1.2	6	1	1	-	7.20	-	-	-	-	
		Flight Rod	12	2.85	8	1	1	-	-	22.80	-	-	-	
		Distribution	10	1.2	19	1	1	-	22.80	-	-	-	-	
								-	-	-	-	-	-	
		Total length of steel bar						3,313.67	1,365.00	3,361.80	2,452.50	870.80	312.00	
		Unit weight of steel bars Kg/mt						0.395	0.620	0.880	1.580	2.467	3.850	
		Total weight of steel in Kg						1,308.90	846.30	2,958.38	3,874.95	2,148.26	1,201.20	
		Total weight of steel in MT						1.309	0.846	2.958	3.875	2.148	1.201	
		Total Net weight of steel in MT						12.338						

NEWZEN CONSULTANT BANGALORE

10/05/2019

Assistant Engineer
Mallasandra W-13

10/5/2019

Assistant Executive Engineer
Project Divison, BBMP

BENNIKA DEVELOPERS AND PROJECTS Pvt. LTD. BANGALORE

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